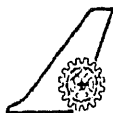


National Aerospace Laboratories

Glass Transition Temperature (T_g) Measurements on Test Laminates Used in HANSA-3 Prototype II Development (Post Curing Effect)

R M V G K RAO, KAVITHA, A VANAJA
F R P Pilot Plant



NATIONAL AEROSPACE LABORATORIES

Class : Restricted

No. of Copies : 10

Title : Glass transition temperature (T_g) measurements on test laminates used in hansa-3 prototype II development (post curing effect)

Author / s : RMVGK Rao, Kavitha, A Vanaja

Division : FRP Pilot Plant

NAL Project No. : 1 - 8 - 112 (c)

Document No. : PD RP 9706

Date of Issue : December 1997

Contents		Pages	27	Figures	15	Tables	02	Annexures:
-----------------	--	--------------	-----------	----------------	-----------	---------------	-----------	-------------------

External Participation : ----

Sponsor : ----

Approval : Dr. RMVGK Rao
Head, FRP Pilot Plant

Remarks : ----

Keywords: T_g, DSC, Epoxy resin Post cure

Abstract:

For the weight reduction of Hansa-3 prototype I, design consideration were slightly modified to fabricate a new version viz., Hansa-3 prototype II. In connection with this program laminates were fabricated using LY 5052 system with both carbon tape and glass fabrics for generation of design allowables. They were post cured and tested for mechanical properties as the degree of post cure directly influences the hot wet mechanical properties, the T_g of post cured specimens were monitored for both GFRP and CFRP specimens.